

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10 18 85		OCT 23 1985	
Company Caulkins Oil Company				Connection			
Pool Basin Dakota				Formation Dakota		Unit DIST. 3	
Completion Date 10-11-85		Total Depth 6825'		Plug Back TD 6825'		Elevation 6112 GR	
Furn or Lease Name Breech "B"		Well No. 220-M		Perforations: From 6607' To 6783'		Unit Sec. Twp. Rye. E 14 26N 7W	
Coq. Size 5 1/2" 17#		d 4.890		Set At 4.892 6825'		Perforations: From 6701' To	
Thq. Size 1 1/4" 2.3#		d 1.380		Set At 6701'		Perforations: From 6701' To	
Type Well - Single - Bordenhead - G.G. or G.O. Multiple Gas - Gas Multiple				Packer Set At 4756'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g		New Mexico	
%		%		%		Prover	
%		%		%		Meter Run	
%		%		%		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2148		PKR		7 Days
1.							107		PKR		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		119	1.000	1.000	1.000	1,685
2.							
3.							
4.							
5.							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P ₁ ²	P _w	P ₂ ²	P _c ² - P ₂ ²	(1) $\frac{P_c^2}{P_2^2 - P_2'^2} = 1.107$	(2) $\left[\frac{P_c^2}{P_2^2 - P_2'^2} \right]^n = 1.0789$
1	14,161	670	449,569	4,216,031		
2						
3						
4						
5						

Absolute Open Flow _____ Mcfd @ 15.025				Angle of Slope @ _____		Slope, n _____ 75	
Remarks _____							
Approved By Division _____ Conducted By _____ Calculated By _____ Checked By _____							